

Time code enables different pieces of studio gear to work together but it has become a source of problems and frustrations for many engineers. The SR-15+ can eliminate these frustrations by providing three essential functions in one comprehensive unit: a time code analyzer, a distributor/ reshaper and a pilot tone stripper.



ANALYZING TIME CODE

Time code format & Frame Rate:

The front panel displays separately the format (24, 25 or 30), the drop frame status and the frame rate of the incoming time code. For example: 30 drop at a rate of 29.97. No more guessing!

In addition, the counter can show potential problems such as jitter or wow and flutter.

Time code errors:

Time code errors such as repeated frames,

drop outs etc. are detected and reported on the front panel along with the faulty addresses. A buzzer is included which sounds whenever the analyzer detects an error.

Video Phase:

In audio post production, it is essential that time code be synchronous with video (i.e. the video frame must be perfectly aligned with the corresponding time code word). The SR-15+ accurately monitor the phase

between time code and video and report even slow drifts.

Printed time code report:

A comprehensive report that includes format, video phase and time code errors can be sent to an external printer or computer via the rear panel parallel and serial ports.

DISTRIBUTING TIME CODE

Buffered outputs:

Multiplexing a single time code source to multiple destinations can cause many problems. The SR-15+ eliminates those by distributing time code through balanced and buffered outputs.

Reshaping:

The Brainstorm Time Code Distributors are more than audio DA's; they reshape the signal before distributing it. Audio DA's on the other hand, transfer all distortions and level fluctuations present at the source.

Output Level Adjust:

Output levels are adjustable individually via front panel pots from full off to +12db. Thanks to the reshaper, these adjusted levels remain constant regardless of the input level.

SPECIFICATIONS

Distributor Configuration:

1x5 (2 inputs w/ front panel selector switch)

Input Signal:

SMPT/EBU Longitudinal Time Code
 (Forward or reverse; play, shuttle and wind)
 Impedance: 20KΩ bal.; 10KΩ unbal.
 Level: -30dBu min; +20dBu Max

Output Signal:

Waveform: switchable rise time
 Impedance: 600Ω bal.; 300Ω unbal.
 Level: adjustable (front panel pot):
 full off to +8dBu bal.; to + 2dBu unbal.
 Amplitude distortion: less than 2%

Analyzer's LEDs: Signal present, Good code, ascii, Color, Drop, Video code

8 Digit Display Functions:

- Reader: reads time code and user bits;
- Video Phase: displays the time code bit aligned with video F1L5 and the field (of the color sequence) aligned with ID pulse;
- Errors: displays the description and address of the error detected

4 Digit Display:

- Frame Rate Reader: code in (fr/sec)
 - Frequency Counter: tone in or tone out
- Reading range:
 ≈ 21 to 39 fr/sec or ≈ 5.00 to 99.99 Hz
 Display accuracy: ± 20 ppm plus ± 1/2 lsd
 Resolution: .01 Fr/sec or Hz
 Update rate: 4x per sec.

Tone Stripper: time code conversions:

- 24 fr/sec (film) 60Hz
- 25 fr/sec (pal) 50Hz
- 29.97fr/sec (ntsc) 59.94Hz
- 30 fr/sec (smpte) 60Hz

Stripper Output Waveform:

Low distortion Sine or Square wave.

Connectors:

- XLR Female (2 inputs); XLR Male (6 outputs)
- BNC: color ID in & loop; video ref in & loop; DB-9 Male: Serial port (RS-232)
- DB-25 Fem: Parallel port (Centronics)
- 1/4" Jack: Relay out / Event In
- IEC 320 power inlet

Power: Switchable: 115VAC / 230 VAC @ 50 / 60Hz with front panel on-off switch



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